

DIK-SSC-IX-2019(A)
PHYSICS (9TH)

Marks: 65

Time : 20 min

SECTION - A

Marks: 12

Q.1 Choose the correct answer from four possible answers (A,B,C,D) and fill the correct answer on MCQ's sheet separately.

- i) The unit of coefficient of friction is:
A) N B) Kg C) Nm^{-2} D) None
- ii) Force needed to produce an acceleration of 20m/s^2 in a ball of 2 Kg is:
A) 40N B) 80N C) 10N D) 100N
- iii) The angle at which X and Y components of force are equal is:
A) 0° B) 30° C) 45° D) 60°
- iv) Two masses are separated by a distance r . If both masses are doubled, the force of interaction between the two masses changes by a factor:
A) 2 B) 4 C) $1/2$ D) $1/4$
- v) 1K Which =
A) 1000J B) $3.6 \times 10^6\text{J}$
C) 3600J D) 746J
- vi) The temperature at which a body is not radiating any heat is:
A) 0°C B) 0°F C) 0K D) All these
- vii) The amount of heat required to raise the temperature of 1 Kg of water by 1K is:
A) 1J B) 400J C) 310J D) 4190J
- viii) Liquids and gases are group together are called:
A) Liquids B) Pascals C) Fluids D) None
- ix) The number of significant figure is 0.00467 is:
A) .5 B) 4 C) 3 D) 6
- x) Which one of the following prefix is the smaller one?
A) Micro B) Milli C) Nano D) Femto
- xi) The area under a speed-time graph represents:
A) Acceleration B) Change in acceleration
C) Distance D) Velocity
- xii) The average speed of a bus is 20ms^{-1} , how far can it travel in 20s.
A) 400m B) 200m C) 1000m D) 800m